X-ma 6000, 3000 Series

- **Features**
- > Excellent stability
- > Fixed slits
- > Large LCD screen > Pre-aligned deuterium lamp
- > Powerful buit in or PC windows based software including sophisticated utility programs
- > Auto 8 cell holder

X-ma 6000 Series!

(Double beam)

X-ma 3000 Series!

(Single beam)

Innovative optical system, high performance.



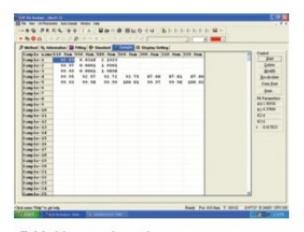
Model: X-ma 6000 Series X-ma 3000 Series

Model	X-ma 6100 (PC)	X-ma 6300 (PC)	X-ma 6100S (PCS)		
Beam Type	Double beam				
Wavelength Range	190-1100nm	190-1100nm	190-1100nm		
Spectral Bandwidth	1.8nm	1.0nm	0.5/1/2/4nm		
Optical System	Double Beam, Grating 1200 Lines/mm				
Wavelength Accuracy	±0.3nm				
Wavelength Repeatability	0.2nm				
Scanning Speed	Hi, Med, Low Max.3000nm/min				
Photometric Accuracy	±0.3%T				
Photometric Repeatability	±0.15%T				
Photometric Range	-0.3-3A, 0-200%T, 0-9999Conc.				
Stray Light	0.05%T				
Stability	±0.001A/h @ 500nm				
Display	±0.001A (200-1000nm)				
Baseline Flatness	Large LCD Display (W100×H78mm, 5 inch) or PC Model				
Sample Compartment	Halogen & Deuterium lamp (pre-aligned)				
Light Source	Auto 8 cell holder				
Output	USB Port & Parallel Port (Printer)				
Power Requirement	AC 220V/50Hz or AC 110V/60Hz				
Dimensions (W×D×H)	600 x 450 x 200mm				
Weight	22kg				
Performance	Absorbance, Transmittance or concentration measurements Quantitative Spectrum scan of sample at any selected wavelength range with choice of scanning speed and wavelength interval Measurement of absorbance changing vs. time with reaction rate calculation function Multi Wavelength Measurement at multiple wavelengths to analyze and determine the composition of the mixtures Calculation of concentration and DNA purity. Ratio at other wavelengths can be measured				
Optional Accessories	• 3, 5, 10 cm 4-cell holder	Test tube holder			
	Micro cell holder Printer				
	Water-jacket cell holder Ambient sipper/ Peltier system Cell				

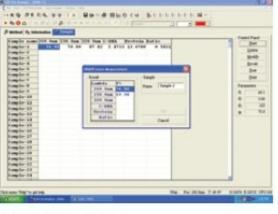
All specifications are subject to change without notice

The PC application software offers

- > Basic Photometric Mode
- > Quantitative test (standard curve)
- > Wavelength Scanning > Kinetics
- > DNA/Protein
- > Multi wavelength Test
- > System Utility



Multi-wavelength Up to 32 wavelengths can be selected and multiple samples can be measured, (Auto cell changer is required to run multiple samples auto-matically)

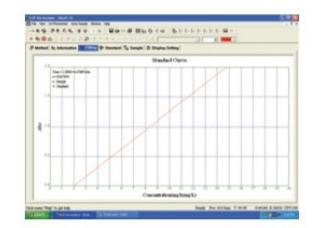


• DNA/Protein

Concentration and DNA purity are quickly and easily calculated: Absorbance ratios 260nm/280nm with optional subtracted absorbance at 320nm.

DNA concentration = 62,9 X A260 - 36,0 X A280 Protein concentration = 1552 X A260 - 757,3 X A280

Kinetics (Abs vs. Time) The Kinetics mode may be used for time course scanning or reaction rate calculations, Abs, vs, time graphs is displayed on the srceen in real time, Wait time, measurement time and time intervals may be entered, Post-run manipulation includes re-scaling, curve tracking and selection of the part of the curve required for the rate calculation, Rate is calculated using a linear regression algorithm before multiplying by the entered factor,



Use up to 32 standards to establish standard curve. Four methods for fitting a curve : 1. Linear fit 2. Linear through zero

Quantitative Test (standard Curve)

3. Square fit 4. Cubic fit

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Model	X-ma 3000 (PC)	X-ma 3100 (PC)	X-ma 3200 (PC)		
Beam Type	Singl Beam				
Wavelength Range	190 ~ 1100 nm				
Spectral Bandwidth	2.5 nm	2.0 nm	1.8 nm		
Optical System	Single beam, Grating 1200 lines/mm				
Wavelength Accuracy	±0.5 nm	±0.5 nm	±0.3 nm		
Wavelength Repeatability	0.3 nm	0.3 nm	0.2 nm		
Scanning Speed	Hi, Med, Low. Max 3000 nm/min				
Photometric Accuracy	±0.3 %T	±0.3 %T	±0.2 %T		
Photometric Repeatability	±0.2 %T	±0.2 %T	± 0.15 %T		
Photometric Range	-0.3 to 3.0A / 0 to 200%T / 0 to 9999C				
Stray Light	±0.05 %T				
Stability	±0.002 A/h	±0.002 A/h	0.001 A/h		
Display	Large LCD Display (W100×H78mm, 5 inch) or PC Model				
Baseline Flatness	±0.002A	±0.002A	±0.001A		
Sample Compartment	Auto 8 cell holder				
Light Source	Halogen & Deuterium lamp (Pre-aligned)				
Output	USB Port & Parallel Port (Printer)				
Power Requirement	220/110V, 60/50 Hz				
Dimensions (W×D×H)	480 × 360 × 160 mm				
Weight	16 kg				
Performance	Absorbance, Transmittance or concentration measurements Quantitative Spectrum scan of sample at any selected wavelength range with choice of scanning speed and wavelength interval Measurement of absorbance changing vs. time with reaction rate calculation function Multi Wavelength Measurement at multiple wavelengths to analyze and determine the composition of the mixtures Calculation of concentration and DNA purity, Ratio at other wavelengths can be measured				
Optional Accessories	• 3, 5, 10 cm 4-cell holder	Test tube holder			

 Micro cell holder Water-jacket cell holder · Ambient sipper/ Peltier system

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